

DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am an original, first and joint inventor of the subject matter which is claimed in an application entitled "**CAPACITIVE VACUUM MEASURING CELL**"

the specification of which X is attached hereto. X was filed on December 22, 1998 and assigned Application Serial No. 09/219,090 and was amended on 12/22/98.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose to the Patent Office all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, §1.56.

I hereby claim foreign priority benefits under Title 35, United States Code §119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

<u>Prior Foreign Application(s)</u>			Priority claimed	
<u>1997 2950/97</u>	<u>Switzerland</u>	<u>December 23, 1997</u>	<u>X</u>	<u>      </u>
(Number)	(Country)	(Date filed)	Yes	No

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

And I hereby appoint:

William C. Cahill, Reg. No. 19,742; C. Robert von Hellens, Reg. No. 25,714; Charles R. Hoffman, Reg. No. 26,556; Marvin A. Glazer, Reg. No. 28,801; and Thomas G. Watkins III, Reg. No. 27,964;

my attorneys with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith.

Address all telephone calls to: Marvin A. Glazer, (602) 956-7000

Address all correspondence to: CAHILL, SUTTON & THOMAS P.L.C.

Attn: Marvin-A. Glazer  
155 Park One  
2141 East Highland Avenue  
Phoenix, Arizona 85016

Wherefore I request that Letters Patent be granted to me for the invention or discovery described and claimed in the above-identified patent application.

Inventor's signature Per Björk Date December 21, 1998  
Full name of sole or first inventor Per BJÖRKMAN  
Residence Bastö, FL-22310 Palsböle, Aaland, Finland  
Post Office Address Bastö, FL-22310 Palsböle, Aaland, Finland  
Citizenship Finnish

Inventor's signature Ray Olsson Date December 21, 1998  
Full name of sole or first inventor Ray OLSSON  
Residence Mörby 81, FL-22240 Hammarland, Aaland, Finland  
Post Office Address Mörby 81, FL-22240 Hammarland, Aaland, Finland  
Citizenship Finnish



UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office

ASSISTANT SECRETARY AND COMMISSIONER  
OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231

MARCH 05, 2001

CAHILL, SUTTON & THOMAS. P.L.C.  
MARVIN A. GLAZER  
155 PARK ONE  
2141 E. HIGHLAND AVENUE  
PHOENIX, AZ 85016-4737

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\*101563579A\*

CAHILL, SUTTON, THOMAS, P.L.C.

UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 12/08/2000

REEL/FRAME: 011360/0158  
NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

UNAXIS TRADING LIMITED

DOC DATE: 09/20/2000

ASSIGNEE:

UNAXIS BALZERS LIMITED  
P.O. BOX 1000  
BALZERS, LIECHTENSTEIN FL-9496

SERIAL NUMBER: 09219090  
PATENT NUMBER:

FILING DATE: 12/22/1998  
ISSUE DATE:

JEFFREY OLSEN, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS

For Use By CS&T Docket Clerk Only
Remarks: _____
_____
Date: 3-13-01 Signed: <i>EM</i>

FORM PTO-1619A

12-27-2000

U.S. Department of Commerce  
Patent and Trademark Office  
**PATENT**

101563579

RECORDATION FORM COVER SHEET  
PATENTS ONLY

TO: The Commissioner of Patent and Trademarks: Please record the attached original document(s) or copy(ies).

**Submission Type**☒ New☐ Resubmission (non-Recordation)  
Document ID# \_\_\_\_\_☐ Correction of PTO Error

Reel # \_\_\_\_\_ Frame # \_\_\_\_\_

☐ Corrective Document

Reel # \_\_\_\_\_ Frame # \_\_\_\_\_

**Conveyance Type**☒ Assignment☐ Security Agreement☐ License☐ Change of Name☐ Merger☐ Other \_\_\_\_\_**U.S. Government**

(For Use ONLY by U.S. Government Agencies)

☐ Departmental File ☐ Secret File**Conveying Party(ies)**☐ Mark if additional names of conveying parties attachedName (line 1) Unaxis Trading Limited

Name (line 2) \_\_\_\_\_

Month Day Year  
09202000**Sec nd Party**

Name (line 1) \_\_\_\_\_

Month Day Year

Name (line 1) \_\_\_\_\_

**Receiving Party**☐ Mark if additional names of receiving parties attachedName (line 1) Unaxis Balzers Limited

Name (line 2) \_\_\_\_\_

Address (line 1) P.O. Box 1000

Address (line 2) \_\_\_\_\_

Address (line 3) \_\_\_\_\_

Balzers

City

Liechtenstein

State/County

FL-9496

Zip Code

☐ If document to be recorded  
is an assignment and the  
receiving party is not  
domiciled in the United  
States, an appointment  
of a domestic  
representative is attached.  
(Designation must be a  
separate document from  
Assignment.)**Domestic Representative Name and Address**

Enter for the first Receiving Party only.

Name \_\_\_\_\_

Address (line 1) \_\_\_\_\_

Address (line 2) \_\_\_\_\_

Address (line 3) \_\_\_\_\_

**FOR OFFICE USE ONLY**

12/26/2000 GTON11 00000098 09219090

01 FC:581

40.00 DP

**Correspondent Name and Address**Area Code and Telephone Number (602) 956-7000Name Marvin A. GlazerAddress (line 1) CAHILL, SUTTON & THOMAS, P.L.C.Address (line 2) 155 Park OneAddress (line 3) 2141 E. Highland AvenueAddress (line 3) Phoenix, AZ 85016-4737**Pages** Enter the total number of pages of the attached conveyance document including any attachment.# 1**Application Number(s) or Patent Number(s)**       Mark if additional numbers attached

Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH NUMBERS FOR THE SAME PROPERTY).

Patent Application Number(s)

09/219,090

Patent Number(s)

If this document is being filed together with a new Patent Application, enter the date the patent application was signed by the first named executing inventor.

Month Day Year

**Patent Cooperation Treaty (PCT)**

Enter PCT application number only if a U.S. Application Number has not been assigned.

PCT

PCT

PCT

PCT

PCT

PCT

**Number of Properties**

Enter the total number of properties involved.

# 1**Fee Amount**

Fee Amount for Properties Listed (37 CFR 3.41):

\$ 40.00

Method of Payment:

Enclosed XDeposit Account       

Deposit Account

(Enter for payment by deposit account or if additional fees can be charged to the account.)

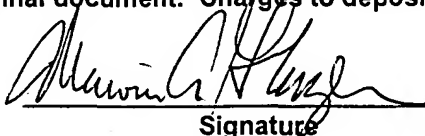
Deposit Account Number:

# 03-0088Authorization to charge additional fees: Yes X No       **Statement and Signature**

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Charges to deposit account are authorized, as indicated herein.

Marvin A. Glazer

Name of Person Signing



Signature

Dec. 4, 2000

Date

## CERTIFICATE OF ASSIGNMENT

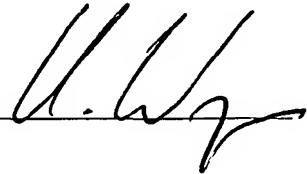
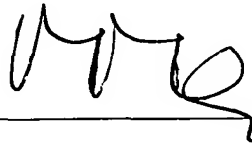
Title : U.S. Patent Application Serial No. 09/219,090, filed on December 22, 1998  
entitled "Capacitive Vacuum Measuring Cell"

We, **Andreas Vogt and Urs Wegmann**, the undersigned, lawful representatives of **UNAXIS TRADING LIMITED** of CH-9477 Trübbach, Switzerland, do hereby declare that Unaxis Trading Limited is the true owner of the invention entitled as above and that it has assigned the entire right and interest in and to the above invention and to obtain patent in respect to said invention unto **UNAXIS BALZERS LIMITED** of FL-9496 Balzers, Principality of Liechtenstein or their successor so far as the United States of America are concerned.

Dated this 20 day of September, 2000.

**Unaxis Trading Limited**

Signature



Name

Andreas Vogt  
President

Urs Wegmann  
Board Member



UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office  
ASSISTANT SECRETARY AND COMMISSIONER  
OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231

JANUARY 16, 2001

PTAS

CAHILL, SUTTON & THOMAS, P.L.C.  
MARVIN A. GLAZER  
155 PARK ONE  
2141 E. HIGHLAND AVENUE  
PHOENIX, AZ 85016-4737



\*101518730A\*

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RECORDATION DATE: 11/06/2000

REEL/FRAME: 011234/0104  
NUMBER OF PAGES: 9

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

BALZERS HOCHVAKUUM AG

DOC DATE: 10/27/1999

ASSIGNEE:

UNAXIS TRADING LIMITED  
P.O. BOX 1000  
BALZERS, LIECHTENSTEIN FL-9496

SERIAL NUMBER: 09218934 *441-A-26*  
PATENT NUMBER:

FILING DATE: 12/22/1998  
ISSUE DATE:

SERIAL NUMBER: 09219090 *A-25*  
PATENT NUMBER:

FILING DATE: 12/22/1998  
ISSUE DATE:

DOROTHY RILEY, PARALEGAL  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS

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JAN 24 2001

For Use By CS&T Docket Clerk Only
Remarks: <i>None Change</i> <i>Just file Rec'd A-26</i>
Date: <i>1-25-01</i> Signed: <i>[Signature]</i>

CAHILL, SUTTON, THOMAS, P.L.C.

11-16-2000

101518730  
RECORDATION FORM COVER SHEET  
PATENTS ONLY

11-6-00

TO: The Commissioner of Patent and Trademarks: Please record the attached original document(s) or copy(ies).

**Submission Type**☒ New☐ Resubmission (non-Recordation)

Document ID# \_\_\_\_\_

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Reel # \_\_\_\_\_ Frame # \_\_\_\_\_

☐ Corrective Document

Reel # \_\_\_\_\_ Frame # \_\_\_\_\_

**Conveyance Type**☐ Assignment☐ Security Agreement☐ License☒ Change of Name☐ Merger☐ Other \_\_\_\_\_**U.S. Government**

(For Use ONLY by U.S. Government Agencies)

☐ Departmental File ☐ Secret File**Conveying Party(ies)**☐ Mark if additional names of conveying parties attachedName (line 1) Balzers Hochvakuum AG

Name (line 2) \_\_\_\_\_

Month Day Year  
10271999**Second Party**

Name (line 1) \_\_\_\_\_

Name (line 1) \_\_\_\_\_

Month Day Year  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_**Receiving Party**☐ Mark if additional names of receiving parties attachedName (line 1) Unaxis Trading Limited

Name (line 2) \_\_\_\_\_

Address (line 1) P.O. Box 1000

Address (line 2) \_\_\_\_\_

Address (line 3) \_\_\_\_\_

Balzers

City

Liechtenstein

State/County

FL-9496

Zip Code

☐ If document to be recorded is an assignment and the receiving party is not domiciled in the United States, an appointment of a domestic representative is attached. (Designation must be a separate document from Assignment.)**Domestic Representative Name and Address**

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Name \_\_\_\_\_

Address (line 1) \_\_\_\_\_

Address (line 2) \_\_\_\_\_

Address (line 3) \_\_\_\_\_

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11/14/2000 MTHAI1 00000255 09218934

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80.00 OP



**Correspondent Name and Address**Area Code and Telephone Number (602) 956-7000Name Marvin A. GlazerAddress (line 1) CAHILL, SUTTON & THOMAS, P.L.C.Address (line 2) 155 Park OneAddress (line 3) 2141 E. Highland AvenueAddress (line 3) Phoenix, AZ 85016-4737**Pages** Enter the total number of pages of the attached conveyance document  
including any attachment.# 5**Application Number(s) or Patent Number(s)**       Mark if additional numbers attached

Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH NUMBERS FOR THE SAME PROPERTY).

Patent Application Number(s)

09/218,934  
09/219,090

Patent Number(s)

If this document is being filed together with a new Patent Application, enter the date the patent application was  
signed by the first named executing inventor.Month Day Year  
                    **Patent Cooperation Treaty (PCT)**Enter PCT application number  
only if a U.S. Application Number  
has not been assigned.

PCT

PCT

PCT

PCT

PCT

PCT

**Number of Properties**

Enter the total number of properties involved.

# 2**Fee Amount**

Fee Amount for Properties Listed (37 CFR 3.41):

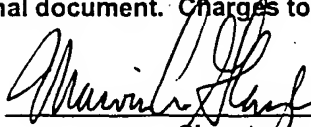
\$ 80.00Method of Payment:  
Deposit AccountEnclosed XDeposit Account       

(Enter for payment by deposit account or if additional fees can be charged to the account.)

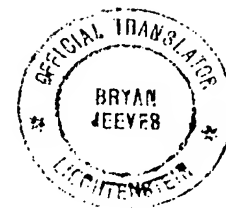
Deposit Account Number:

# 03-0088Authorization to charge additional fees: Yes X No       **Statement and Signature**To the best of my knowledge and belief, the foregoing information is true and correct and any  
attached copy is a true copy of the original document. Charges to deposit account are authorized,  
as indicated herein.Marvin A. Glazer

Name of Person Signing

  
SignatureNov. 2, 2000

Date



**EXTRACT FROM THE COMMERCIAL REGISTER OF THE  
CANTON OF St. GALL, SWITZERLAND  
MAIN REGISTER**

Company No. CH 320.3.040.000-8

**Name:** Unaxis Trading AG (See comment No. 4)  
Unaxis Trading Ltd.  
Unaxis Trading SA  
(Formerly Balzers Hochvakuum AG, (see comment No. 1) Wartau,

**Date of entry:** 21. 12. 1995

**Legal nature:** Company Limited by Shares

**Domicile:** c/o Balzers AG, 9477 Trübbach

**Capital:** CHF 8,000,000.- fully paid up and divided into 8,000 registered shares each having a nominal value of CHF 1,000.-

**Objects:** The objects of the Company shall be the acquisition, holding and exploitation of patents and licences in the sphere of high technology, relating particularly to protection against wear in coating technology also of measuring devices and vacuum equipment. The Company may establish subsidiary companies and branches at home and abroad; it may also acquire participations.

**Comments:**

1. 1. The transferability of the registered shares is restricted in accordance with the provisions contained in the Articles. Date of Articles 20.06.1968 and 19.12.1995.
- 3, 4. The cancelled entries (in the original extract) relating to the time before the entry in the C. R. of the Canton of St. Gall, as well as possible earlier provisions in Articles, TB entries or SHAB quotations may be examined in the extracts from the Commercial Register of the previous domicile, which are filed in the Commercial Register files.  
Date of Articles 18.06.1997 and 13.10.1999.

Concerning subscriptions in kind, assumption of subscriptions in kind, special advantages, participation certificates, refer to the SHAB (publication journal).

**Company Notices:** Shall ensue by registered letter.

**Board of Directors:**

Andreas Vogt, Liechtenstein citizen,  
Balzers, Liechtenstein,  
Chairman of the Board of Directors with joint signature rights  
with one other person

Anton Angehrn,  
from Muolen, in Buchs SG  
Member of the Board of Directors with joint signature rights  
with one other person

Erich Haefeli,  
from Zurich and Klingnau, in Vaduz, Liechtenstein,  
Member of the Board of Directors, with joint signature rights  
with one other person

**RECORDATION FORM COVER SHEET  
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TO: The Commissioner of Patent and Trademark: Please record the attached original document(s) or copy(ies).

**Submission Type**☒ New☐ Resubmission (non-Recordation)

Document ID# \_\_\_\_\_

☐ Correction of PTO Error

Reel # \_\_\_\_\_ Frame # \_\_\_\_\_

☐ Corrective Document

Reel # \_\_\_\_\_ Frame # \_\_\_\_\_

**Conveyance Type**☐ Assignment☐ Security Agreement☐ License☒ Change of Name☐ Merger☐ Other \_\_\_\_\_**U.S. Government**

(For Use ONLY by U.S. Government Agencies)

☐ Departmental File ☐ Secret File**Conveying Party(ies)**☐ Mark if additional names of conveying parties attachedName (line 1) Balzers Hochvakuum AG

Name (line 2) \_\_\_\_\_

Month Day Year  
10271999**Second Party**

Name (line 1) \_\_\_\_\_

Name (line 1) \_\_\_\_\_

Month Day Year  
\_\_\_\_\_  
\_\_\_\_\_**Receiving Party**☐ Mark if additional names of receiving parties attachedName (line 1) Unaxis Trading Limited

Name (line 2) \_\_\_\_\_

Address (line 1) P.O. Box 1000

Address (line 2) \_\_\_\_\_

Address (line 3) \_\_\_\_\_

BalzersLiechtensteinFL-9496

City

State/County

Zip Code

☐ If document to be recorded is an assignment and the receiving party is not domiciled in the United States, an appointment of a domestic representative is attached. (Designation must be a separate document from Assignment.)**Domestic Representative Name and Address**

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Name \_\_\_\_\_

Address (line 1) \_\_\_\_\_

Address (line 2) \_\_\_\_\_

Address (line 3) \_\_\_\_\_

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**Correspondent Name and Address**Area Code and Telephone Number (602) 956-7000Name Marvin A. GlazerAddress (line 1) CAHILL, SUTTON & THOMAS, P.L.C.Address (line 2) 155 Park OneAddress (line 3) 2141 E. Highland AvenueAddress (line 3) Phoenix, AZ 85016-4737**Pages** Enter the total number of pages of the attached conveyance document including any attachment.# 5**Application Number(s) or Patent Number(s)**         Mark if additional numbers attached

Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH NUMBERS FOR THE SAME PROPERTY).

Patent Application Number(s)

09/218,934  
09/219,090

Patent Number(s)

If this document is being filed together with a new Patent Application, enter the date the patent application was signed by the first named executing inventor.Month    Day    Year  
          **Patent Cooperation Treaty (PCT)**Enter PCT application number  
only if a U.S. Application Number  
has not been assigned.

PCT

PCT

PCT

PCT

PCT

PCT

**Number of Properties**

Enter the total number of properties involved.

# 2**Fee Amount**

Fee Amount for Properties Listed (37 CFR 3.41):

\$ 80.00

Method of Payment:

Enclosed XDeposit Account         

Deposit Account

(Enter for payment by deposit account or if additional fees can be charged to the account.)

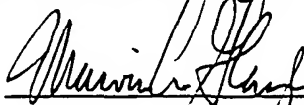
Deposit Account Number:

# 03-0088Authorization to charge additional fees: Yes X No         **Statement and Signature**

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Charges to deposit account are authorized, as indicated herein.

Marvin A. Glazer

Name of Person Signing

  
SignatureNov. 2, 2000

Date



UNITED STATES DEPARTMENT OF COMMERCE

Patent and Trademark Office

ASSISTANT SECRETARY AND COMMISSIONER  
OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231

MAY 26, 1999

PTAS

CAHILL, SUTTON & THOMAS, P.L.C.  
MARVIN A. GLAZER  
2141 EAST HIGHLAND, SUITE 155  
PHOENIX, AZ 85016



\*100981512A\*

RECEIVED

JUN - 4 1999

UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

CAHILL, SUTTON, THOMAS, P.L.C.

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RECORDATION DATE: 02/22/1999

REEL/FRAME: 9803/0041

NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

BJOERKMAN, PER

DOC DATE: 12/21/1998

ASSIGNOR:

OLSSON, RAY

DOC DATE: 12/21/1998

ASSIGNEE:

BALZERS HOCHVAKUUM GMBH  
CH-9477 TRUEBBACH, SWITZERLAND

SERIAL NUMBER: 09219090

FILING DATE: 12/22/1998

PATENT NUMBER:

ISSUE DATE:

SHARON LATIMER, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS

For U:
Docket
Remarks: 4441-A-25
Date: 6-8-99

03-15-1999



IEET

To the Honorable Commissioner of Patents

100981512

and original documents or copy thereof

1. Name of conveying party(ies):  
Per BJOERKMAN  
Ray OLSSON

Additional name(s) of conveying  
party(ies) attached? ☐ Yes ☒ No

2-22-99

2. Name and address of receiving party(ies):  
BALZERS HOCHVAKUUM GmbH  
a corporation incorporated under  
the laws of Switzerland  
and having a principal place of business at  
CH- 9477  
Truebbach, Switzerland

Additional name(s) & address(es) attached? ☐ Yes ☒ No

3. Nature of conveyance:

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Other \_\_\_\_\_

Execution Date: December 21, 1998

4. Application number(s) or patent number(s):  
A. Patent Application No. (s)

09/219,090

Additional numbers attached? ☐ Yes ☒ No

B. Patent No.(s)

5. Name and address of party to whom correspondence  
concerning document should be mailed:

Marvin A. Glazer, Esq.  
CAHILL, SUTTON & THOMAS, P.L.C.  
2141 E. Highland  
Suite 155  
Phoenix, Arizona 85016

6. Total number of applications and patents involved: 1

7. Total Fee (37 CFR 3.41) \$40.00

- ☒ Enclosed  
☒ Authorized to be charged to deposit account (if  
deficiency)

8. Deposit account number: 03-0088  
(Attach duplicate copy of this page if paying by deposit  
account)

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9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Marvin A. Glazer  
Name of Person Signing

Marvin A. Glazer  
Signature

Feb. 18 1999  
Date

4441-A-25

Total number of pages including cover sheet, attachments, and document: 3

40E

ASSIGNMENT

This Assignment is made and executed this 21 day of December, 1998, by and from:

Per BJOERKMAN	)	
an individual residing at	)	
Bastö, FL-22310 Palsböle, Aaland	)	Hereinafter referred
Finland	)	to as "ASSIGNORS"
	and	
Ray OLSSON	)	
an individual residing at	)	
Mörby 81, FL-22240 Hammarland, Aaland	)	
Finland	)	
	to	
BALZERS HOCHVAKUUM GmbH	)	Hereinafter referred to
a corporation incorporated	)	as "ASSIGNEE"
under the laws of Switzerland	)	
and having a principal place	)	
of business at	)	
CH-9477	)	
Truebbach, Switzerland	)	
_____	)	

WITNESSETH:

WHEREAS, ASSIGNORS are the inventors of the improvements described and claimed in the application for United States Letters Patent executed concurrently herewith and entitled, "CAPACITIVE VACUUM MEASURING CELL", hereinafter referred to as "PATENT RIGHTS"; and

WHEREAS, ASSIGNORS desire to assign all of their right, title and interest in and to the above-identified PATENT RIGHTS to ASSIGNEE.

NOW, THEREFORE, in consideration of Ten Dollars (\$10.00) and other valuable consideration, the receipt and sufficiency of which are hereby acknowledged:

1. ASSIGNORS hereby sell and assign to ASSIGNEE, its successors and assigns, their entire right, title and interest in and to the improvements described and claimed in the above-identified PATENT RIGHTS, including: (a) any and all patents and applications therefor based upon said improvements; (b) any and all divisions, reissues, continuations and extensions based upon the above-identified patents and applications therefor; and (c) any and all rights of priority resulting from the filing of any of the above-identified patent applications in the United States or any other country.

2. ASSIGNORS hereby authorize and request any official whose duty it is to issue patents to issue any patent or any reissue patent which may be based upon the improvements described and claimed in the above-identified PATENT RIGHTS to ASSIGNEE or its successors and assigns.

3. ASSIGNORS hereby agree upon request and without further consideration, but at the expense of the Assignee: (a) to communicate to ASSIGNEE, or its representatives or nominees, any facts known to ASSIGNORS relating to the above-identified PATENT RIGHTS; (b) to testify in any legal proceeding relating to the above-identified PATENT RIGHTS; (c) to sign and execute all lawful papers and to make all lawful oaths or declarations relating to the above-identified PATENT RIGHTS, including documents relating to divisional, continuing, and reissue applications in the United States and applications in other countries; and (d) to perform all acts reasonably necessary to aid ASSIGNEE, its successors, assigns and nominees in obtaining and enforcing patent protection in the United States and other countries covering those improvements described and claimed in the above-identified PATENT RIGHTS.

December 21, 1998  
Date

Per Björk  
Per BJOERKMAN

December 21, 1998  
Date

Ray Olsson  
Ray OLSSON



Burn Bryan Jeeves Esq.

allgemein beider  
Dolmetscher und Übersetzer



Postfach 10  
CH-9490 Vaduz, Fürstentum Liechtenstein  
Telefon (076) 230 21 37, Telex 880 384 16 J  
Telex (076) 230 21 37

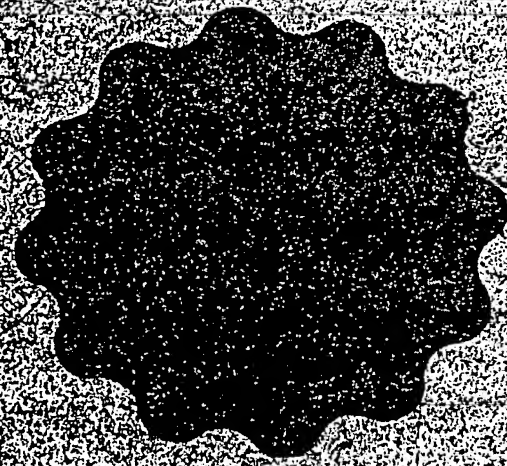
Bryan Jeeves, Generally known  
Interpreter and Translator, being  
admitted by the Principality of Liechtenstein  
Government, hereby certifies that  
the attached translation is a full  
true and faithful translation of the  
original made by me.

Herr Bryan Jeeves ist Experte eines  
allgemein beiderseits und durch die  
Fürstlich Liechtensteinische Regierung  
amtlich zugelassener Dolmetscher sowie  
Übersetzer, beide hienüt, dass die  
beigefügte Übersetzung auf Grund des  
Originals vollständig und wahrheitsgetreu  
durch mich erstellt wurde.

Signed and sealed  
Vaduz, this 2<sup>nd</sup> day of September 1999

Bryan Jeeves

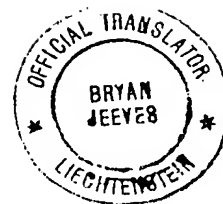
4071/9



Die Echtheit der Unterschrift des  
Herrn Bryan JEEVES  
Stadt 7. 9. 1999 Vaduz  
wird amtlich bestätigt  
Fürst. Liechtenstein, Landesrichtskanzlei  
Vaduz, den 2. 7. SEP 1999

Duly admitted for the Principality  
of Liechtenstein

Zugelassen für das Gebiet des  
Fürstentums Liechtenstein



Urs Wegmann,  
from Winterthur and Volketswil, in Oberachen (Wartau),  
Member of the Board of Directors, with joint signature rights  
with one other person

Kaspar Hanselmann,  
from Wartau, in Oberschan (Wartau)  
Member of the Board of Directors, with joint signature rights  
with one person

Auditors:

ATAG Ernst & Young AG, Zurich

Copy attested 27. October 1999

(signed)

The Registrar

This extract is not valid without the above original attestation. When specially demanded an extract may be also provided which contains only the entries which are at present valid.



## Handelsregister des Kantons

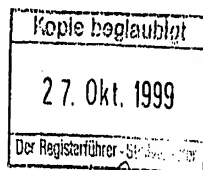


## Handelsregister des Kantons St. Gallen - Hauptregister

CH-320.3.040.000-8	Unaxis Trading AG
--------------------	-------------------

Alle Eintragungen

St. Gallen, 27.10.1999 07:50

Dieser Auszug  
Gültigkeit  
werden, d

Alle Eintragungen

Ei	Lö	Firma	Ref	Sitz
1		Balzers-Hochvakuum-AG	0	bisher in Zürich
1	4	(Balzers-technique-du-vide SA) (Balzers S.p.A. tecnica dell'alto-vuoto)	1	Wartau
4		Unaxis Trading AG		
4		(Unaxis Trading Ltd) (Unaxis Trading SA)		

Ref	Aktienkapital (CHF)	Liberierung (CHF)	Aktien-Stückelung	Ref	Adresse der Firma
1	8'000'000.--	8'000'000.--	8'000 Namenaktien zu CHF 1'000.--	1	c/o Balzers AG 9477 Trübbach
Ref	PS-Kapital (CHF)	Liberierung (CHF)	Partizipationsscheine		

Ei	Lö	Zweck	Ref
1	1	Vertrieb von technischen Geräten aller Art, insbesondere von Hochvakuumgeräten und -anlagen unter den Markenbezeichnungen "Balzers" und "Pfeifer", sowie von unter Verwendung von Vakuum hergestellten Produkten, usw.	
1		Erwerb, Halten und Verwertung von Patenten und Lizenzen im Bereich Hochtechnologie, insbesondere im Verschleisschutz, in der Beschichtungstechnik sowie von Messgeräten und Vakuumzubehör; die Gesellschaft kann im In- und Ausland Tochtergesellschaften und Zweigniederlassungen gründen sowie Beteiligungen erwerben.	

Ei	Lö	Bemerkungen	Ref	Statutendatum
1		Die Übertragbarkeit der Namenaktien ist nach Massgabe der Statuten beschränkt.	1	20.06.1968
1		Die vor der Eintragung im Kanton St. Gallen gestrichenen Tatsachen, sowie allfällige frühere Statutendaten oder Tagebuch- und SHAB-Zitate können im Registerauszug des bisherigen Sitzes, welcher bei den abgelegten Handelsregisterakten liegt, eingesehen werden.	1	19.12.1995
3		Die Mitteilungen der Gesellschaft an die Aktionäre erfolgen durch eingeschriebenen Brief.	3	18.06.1997
			4	13.10.1999

Ei	Lö	Sacheinlagen, Sachübernahmen, bes. Vorteile, Genussscheine	Ref	Publikationsorgan
			1	SHAB

Ei	Lö	Zweigniederlassung	Ei	Lö	Zweigniederlassung	Ei	Lö	Zweigniederlassung	Ei	Lö	Zweigniederlassung

Ze	Ref	TB-Nr	TB-Datum	SHAB	SHAB-Datum	Seite	Ze	Ref	TB-Nr	TB-Datum	SHAB	SHAB-Datum	Seite
MH	1	8692	21.12.1995	252	29.12.1995	7050	GE	4	6747	20.10.1999	208	26.10.1999	7308
BH	2	3634	23.05.1996	103	30.05.1996	3144							
GE	3	4946	08.07.1997	132	14.07.1997	4952							

Leg: P = Präsident(in) des VR	VR = Verwaltungsrat	GF = Geschäftsführer(in)	EU = Einzelunterschrift
VP = Vizepräsident(in) des VR	Liq = Liquidator(in)	b.a = beschränkt auf	KU = Kollektivunterschrift
Del = Delegierte(r) des VR	GD = Generaldirektor(in)	HS = Hauptsitz	EP = Einzelprokura
M = Mitglied des VR	D = Direktor(in)	ZN = Zweigniederlassung	KP = Kollektivprokura
S = Sekretär(in)	VD = Vizedirektor(in)	ZB = Zeichnungsberechtig.	Stv = Stellvertreter(in)

Ei	Ae	Lö	Personalangaben	Funktion	Zeichnungsart
1		1	Klaus, Heinz, von Kirchberg SG, in Schaan (FL)	Präsident	KU zu zweien
1		1m	Angehern, Anton, von Muolen, in Sevelen	Mitglied	KU zu zweien
1			Hanselmann, Kaspar, von Wartau, in Oberschan (Wartau)	Mitglied	KU zu zweien
1		1	Leder, André B., von Basel, in Zollikon	Geschäftsführer	KU zu zweien
1		1	Born, Hans-Peter, von Thunstetten, in Langnau am Albis		KP zu zweien
1		1	Kaufmann, Markus, von Schänis, in Uster		KP zu zweien
1		1	Rechsteiner, Ernst, von Zürich und Walzenhausen, in Fällanden		KP zu zweien
1		1	Willi, Alex, von Sargans, in Sargans		KP zu zweien
1			ATAG Ernst & Young AG, in Zürich	Revisionsstelle	
1			Vogt, Andreas, liechtensteinischer Staatsangehöriger, in Balzers (FL)	Präsident	KU zu zweien
1		1	Angehern, Anton, von Muolen, in Buchs SG	Mitglied	KU zu zweien
2			Haefeli, Erich, von Zürich und Klingnau, in Vaduz (FL)	Mitglied	KU zu zweien
2			Wegmann, Urs, von Winterthur und Volketswil, in Oberschan (Wartau)	Mitglied	KU zu zweien



# Handelsregister des Kantons St. Gallen - Hauptregister

CH-320.3.040.000-8	Unaxis Trading AG	Wartau	2
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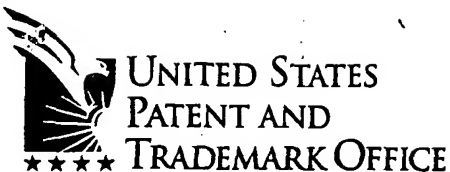
Alle Eintragungen

St. Gallen, 27.10.1999 07:50

Dieser Auszug hat ohne die nebenstehende Originalbeglaubigung keine Gültigkeit. Auf besonderes Verlangen kann auch ein Auszug erstellt werden, der lediglich alle gegenwärtig gültigen Eintragungen enthält.

Kopie beglaubigt
27. Okt. 1999
Der Registerführer - St. Gallen

UQ



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APR 29 2002

APRIL 23, 2002

CAHILL, SUTTON & THOMAS, P.L.C.  
MARVIN A. GLAZER  
155 PARK ONE  
2141 EAST HIGHLAND AVENUE  
PHOENIX, ARIZONA 85016

PTAS CAHILL, SUTTON, THOMAS, P.L.C.

Chief Information Officer  
Washington, DC 20231  
www.uspto.gov



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UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 02/13/2002

REEL/FRAME: 012611/0724  
NUMBER OF PAGES: 4

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

UNAXIS BALZERS LIMITED

DOC DATE: 01/08/2002

ASSIGNEE:

INFICON GMBH, A CORP. OF  
SWITZERLAND  
CH-7310 BAD RAGAZ, SWITZERLAND

SERIAL NUMBER: 09219090  
PATENT NUMBER:

FILING DATE: 12/22/1998  
ISSUE DATE:

SERIAL NUMBER: 09218934  
PATENT NUMBER:

FILING DATE: 12/22/1998  
ISSUE DATE:

ALLYSON PURNELL, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS

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	A-26
Date: 4-30-02	Signed: [Signature]

FORM PTO-1619A

03-01-2002



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Patent and Trademark Office  
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PATENTS ONLY

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☒ New☐ Resubmission (non-Recordation)

Document ID# \_\_\_\_\_

☐ Correction of PTO Error

Reel # \_\_\_\_\_ Frame # \_\_\_\_\_

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Reel # \_\_\_\_\_ Frame # \_\_\_\_\_

## Conveyance Type

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☐ Departmental File ☐ Secret File

2/3/02

## Conveying Party(ies)

☐ Mark if additional names of conveying parties attached

Name (line 1) UNAXIS BALZERS LIMITED

Month Day Year  
01082002

Name (line 2)

## Second Party

Name (line 1)

Month Day Year

Name (line 1)

## Receiving Party

☐ Mark if additional names of receiving parties attached

Name (line 1) INFICON GmbH

Name (line 2) a corporation of Switzerland

Address (line 1) CH-7310 Bad Ragaz

Address (line 2)

Address (line 3) Bad Ragaz  
CitySwitzerland  
State/CountryCH-7310  
Zip Code☐ If document to be recorded  
is an assignment and the  
receiving party is not  
domiciled in the United  
States, an appointment  
of a domestic  
representative is attached.  
(Designation must be a  
separate document from  
Assignment.)

## Domestic Representative Name and Address

Enter for the first Receiving Party only.

Name

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Address (line 2)

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**Correspondent Name and Address**Area Code and Telephone Number (602) 956-7000Name Marvin A. GlazerAddress (line 1) Cahill, Sutton & Thomas, P.L.C.Address (line 2) 155 Park OneAddress (line 3) 2141 East Highland AvenueAddress (line 4) Phoenix, AZ 85016**Pages** Enter the total number of pages of the attached conveyance document including any attachment.# 2**Application Number(s) or Patent Number(s)**       Mark if additional numbers attached

Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH NUMBERS FOR THE SAME PROPERTY).

Patent Application Number(s)

**09/219,090****09/218,934**

Patent Number(s)

If this document is being filed together with a new Patent Application, enter the date the patent application was signed by the first named executing inventor.

Month Day Year

**Patent Cooperation Treaty (PCT)**Enter PCT application number  
only if a U.S. Application Number  
has not been assigned.

PCT

PCT

PCT

PCT

PCT

PCT

**Number of Properties**

Enter the total number of properties involved.

# 1**Fee Amount**

Fee Amount for Properties Listed (37 CFR 3.41):

\$ 80.00

Method of Payment:

Enclosed XDeposit Account       

Deposit Account

(Enter for payment by deposit account or if additional fees can be charged to the account.)

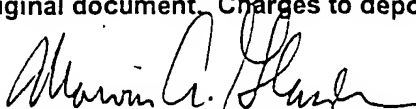
Deposit Account Number:

# 03-0088Authorization to charge additional fees: Yes X No       **Statement and Signature**

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Charges to deposit account are authorized, as indicated herein.

Marvin A. Glazer

Name of Person Signing



Signature

Jan. 24, 2002

Date



## PATENT ASSIGNMENT

This Assignment is made this 8th day of January, 2002, by and from:

UNAXIS BALZERS LIMITED,	)	
a corporation of Liechtenstein	)	
having offices at	)	Hereinafter referred
FL-9496 Balzers	)	to as "ASSIGNOR"
LIECHTENSTEIN	)	
	)	
	to	
	)	
INFICON GmbH	)	Hereinafter referred
a corporation of Switzerland	)	to as "ASSIGNEE"
having offices at	)	
CH-7310 Bad Ragaz	)	
Switzerland	)	
	)	

## RECITALS

ASSIGNOR is the sole and exclusive owner of the United States Patent Applications identified below, as well as the improvements described and claimed in such United States Patent Applications:

1. U.S. Patent Application No. 09/219,090, filed December 22, 1998, and entitled "CAPACITIVE VACUUM MEASURING CELL;" and
2. U.S. Patent Application No. 09/218,934, filed on December 22, 1998, entitled "MEMBRANE FOR CAPACITIVE VACUUM MEASURING CELL."

The U.S. Patent Applications identified above, and the improvements described and claimed therein, shall hereinafter collectively be referred to as "Patent Rights."

Pursuant to a prior Agreement, between ASSIGNOR and ASSIGNEE, ASSIGNOR and ASSIGNEE agreed to assign said Patent Rights to ASSIGNEE.

ASSIGNOR and ASSIGNEE mutually desire such assignment of said Patent Rights to be evidenced by a document suitable for recordation in the United States Patent and Trademark Office.

NOW, THEREFORE, in consideration of the above, and in consideration of Ten Dollars (\$10.00) and other valuable consideration, the receipt and sufficiency of which are hereby acknowledged by ASSIGNOR, ASSIGNOR agrees as follows:

1. ASSIGNOR does hereby sell and assign to ASSIGNEE, its successors and assigns, the entire right, title and interest in and to the improvements described and claimed in the above-identified Patent Rights, including:
  - a. U.S. Patent Application No. 09/219,090, filed December 22, 1998, and entitled "CAPACITIVE VACUUM MEASURING CELL;"



b. U.S. Patent Application No. 09/218,934, filed on December 22, 1998, entitled  
"MEMBRANE FOR CAPACITIVE VACUUM MEASURING CELL;"

c. any and all United States patents and United States patent applications therefor based  
upon said improvements; and

d. any and all United States divisions, reissues, continuations, and extensions based upon  
the above-identified patents and applications therefor;


the same to be held and enjoyed by ASSIGNEE for its own use and enjoyment, and for the use and enjoyment of its successors, assigns, or other legal representatives, to the end of the term or terms for which said patents have been or may be granted or reissued as fully and entirely as the same would have been held and enjoyed by ASSIGNOR if this assignment and sale had not been made, together with all claims for damages by reason of past infringement of said patents, with the right to sue and collect for such claims for ASSIGNEE's own use and enjoyment, and for the use and enjoyment of its successors, assigns, or other legal representatives.


2. ASSIGNOR hereby authorizes and requests any official whose duty it is to issue patents to issue any patent or any reissued patent which may be based upon the improvements described and claimed in the above-identified Patent Rights to ASSIGNEE or its successors or assigns.

3. ASSIGNOR hereby agrees upon request and without further consideration, but at the expense of ASSIGNEE: (a) to communicate to ASSIGNEE, or its representatives or nominees, any facts known to ASSIGNOR relating to the above-identified Patent Rights; (b) to testify in any legal proceeding relating to the above-identified Patent Rights; (c) to sign and execute all lawful papers and to make all lawful oaths relating to the above-identified Patent Rights, including documents relating to divisional, continuing, reissue and foreign applications; and (d) to perform all acts reasonably necessary to aid ASSIGNEE, its successors, assigns and nominees in obtaining and enforcing patent protection in the United States covering those improvements described and claimed in the above-identified Patent Rights.

January 8, 2002  
Date

UNAXIS BALZERS LIMITED

  
By: Erich Haefeli  
Title: General Counsel,  
Legal Department

  
Jörg Baur  
Manager,  
Patent Department